

FORM PTO-1390
(REV. 5-93)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTORNEY'S DOCKET NUMBER
10191/1401TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/581109

INTERNATIONAL APPLICATION NO.
PCT/DE98/03613INTERNATIONAL FILING DATE
9 Dec. 1998
(09.12.98)PRIORITY DATE CLAIMED:
9 Dec. 1997
(09.12.97)

TITLE OF INVENTION

RADIO RECEIVER SET

APPLICANT(S) FOR DO/EO/US
WENDLAND, Arnd

Applicant(s) herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) immediately rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (unsigned)
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: International Search Report, Preliminary Examination Report, and PCT/RO/101.

Express Mail No.:

EL169612583us

527 Rec'd PCT/PTO 08 JUN 2000

U.S. APPLICATION NO. if known, see 37 C.F.R.1.5 09/581109		INTERNATIONAL APPLICATION NO. PCT/DE98/03613		ATTORNEY'S DOCKET NUMBER 10191/1401	
<p>17. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</p> <p>Search Report has been prepared by the EPO or JPO \$840.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) \$670.00</p> <p>No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) \$760.00</p> <p>Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$970.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) \$96.00</p>				CALCULATIONS PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$ 840	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
Claims	Number Filed	Number Extra	Rate		
Total Claims	7 - 20 =	0	X \$18.00	\$0	
Independent Claims	1 - 3 =	0	X \$78.00	\$0	
<input type="checkbox"/> Multiple dependent claim(s) (if applicable)			+ \$260.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$840	
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).				\$	
SUBTOTAL =				\$840	
Processing fee of \$130.00 for furnishing the English translation later the <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+	\$
TOTAL NATIONAL FEE =				\$840	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
TOTAL FEES ENCLOSED =				\$840	
				Amount to be: refunded	\$
				charged	\$
<p>a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>11-0600</u> in the amount of \$840.00 to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>11-0600</u>. A duplicate copy of this sheet is enclosed.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Kenyon & Kenyon One Broadway New York, New York 10004</p> <p><u>Richard L. Mayer</u> SIGNATURE</p> <p>Richard L. Mayer, Reg. No. 22,490 NAME</p> <p><u>6/8/00</u> DATE</p>					

279967

[10191/1401]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Arnd WENDLAND
Serial No. : To Be Assigned
Filed : Herewith
For : RADIO RECEIVER SET
Examiner : To Be Assigned
Group Art Unit : To Be Assigned

Assistant Commissioner
for Patents
Washington, D.C. 20231
Box Patent Application

PRELIMINARY AMENDMENT

SIR:

Please amend the above-identified application before examination as follows:

In The Specification:

On page 1, before line 1, insert --Background Information--.

On page 1, line 4, after "RDS" insert --(Radio Data System)--.

On page 1, line 4, after "TMC" insert --(Traffic Message Channel)--.

On page 1, line 10, insert --Summary Of The Invention--.

On page 1, line 11, change "The" to --An--.

On page 2, line 1, change "means" to --an arrangement--.

On page 3, delete lines 16-23 and in their place insert:

--Brief Description Of The Drawings

EL 1696 1258345

09581109-072800

Figure 1 shows an exemplary embodiment including operating instructions stored in the radio receiver.

Figure 2 shows an exemplary embodiment, designed for retrieving the operating instructions from a central device.

Detailed Description--.

On page 3, line 27, after "VF" insert --(Voice Frequency)--.

On page 4, line 17, delete "essentially".

On page 5, change "Patent Claims" to
--What Is Claimed Is--.

In The Claims:

Please cancel original claims 1-8, without prejudice, and cancel substitute claims 1-7, without prejudice. Please also add new claims 8-14 as follows:

8. (New) A radio receiver set, comprising:
 a memory for storing operating instructions that are capable of being retrieved, through input selection, in any desired sections, and that are able to be at least one of optically displayed and acoustically displayed via an output device.
9. (New) The radio receiver set according to claim 8, wherein:
 a portion of the operating instructions is retrievable in response to an application of an operating voltage.
10. (New) The radio receiver set according to claim 8, wherein:
 the memory corresponds to a non-volatile memory.

11. (New) The radio receiver according to claim 8, further comprising:
a transmission device for receiving one of the operating instructions
and at least sections of the operating instructions from a central device.
12. (New) The radio receiver set according to claim 11, further comprising:
an operational control element for retrieving and outputting one of the
sections of the operating instructions, the one of the sections of the operating
instructions being adapted to a specific operating state of the receiver.
13. (New) The radio receiver set according to claim 12, wherein:
the operational control element permits a repeated actuation in order to
output other sections of the operating instructions.
14. (New) The radio receiver set according to claim 13, further comprising:
a further operational control element, wherein:
the operational control element and the further operational
control element enable a section of the operating instructions pertaining to the
further operational control element to be output by actuating the operational
control element and by actuating the further operational control element.

In The Abstract:

Line 1, change "Abstract" to --Abstract Of The Disclosure--.

Line 5, change "Means" to --An arrangement--.

Remarks

This Preliminary Amendment cancels original claims 1-8, without prejudice, in the underlying PCT Application No. PCT/DE98/03613, and cancels substitute claims 1-7, without prejudice. This Preliminary Amendment also adds new claims 8-14. The new claims do not add new matter to the application but do conform the claims to U.S. Patent and Trademark Office rules.

The amendments to the specification and abstract are to conform the specification and abstract to U.S. Patent and Trademark Office rules. The amendments to the specification and abstract do not introduce new matter into the application.

The underlying PCT application includes a Search Report dated May 7, 1999, and an International Preliminary Examination Report dated March 8, 2000, copies of which are submitted herewith.

Applicant asserts that the present invention is new, non-obvious, and useful. Consideration and allowance of the claims are requested.

Respectfully submitted,

KENYON & KENYON

6/8/00

By

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1/12/00

09/581109
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[10191/1401]

RADIO RECEIVER SET

The present invention relates to a radio receiver set.

5 The growing complexity of radio receiver sets, for example due to supplementary services, such as RDS or TMC, has made it increasingly more difficult to learn how to operate such sets. Printed operating instructions available in known methods heretofore are quite voluminous, and can often be understood by lay people only after considerable expenditure of time and energy, and much practice. Moreover, manufacturers of such sets are faced with the difficulty of keeping the printed operating instructions updated to the current state of development of the particular set in question.

10 The object of the present invention is, therefore, to provide operating instructions, which will always be available when questions pertaining to operation arise, and which are adapted to the development stage of the particular unit.

15 This objective is achieved by the present invention in that stored operating instructions can always be retrieved and read out via an output device.

20 The operating instructions can be read out within the scope of the present invention, both as text and/or with the aid of a voice output.

Moreover, the radio receiver set in accordance with the present invention has the advantage that the operating instructions cannot be misplaced. In the event that the owner of the radio receiver set changes, the instructions can easily be passed over to the new owner.

25 A first specific embodiment of the present invention provides for the operating instructions to be retrievable from a non-volatile memory in the radio receiver. The fact that digital memories are becoming increasingly more economical and compact makes this specific embodiment inexpensively possible.

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A second specific embodiment of the present invention provides for means for retrieving the operating instructions from a central device, which is able to be connected via a transmission device to the radio receiver, and for receiving the operating instructions received from the central device.

This specific embodiment does, in fact, require access to a transmission device, for example to a mobile radio network, or, in the case of steady-state radio receivers, also to a customary communications network, including the Internet. It has the advantage, however, that operating instructions which are valid for all receivers in question, can be modified in the central device, without the user of the device having to expend any outlay for that purpose. Thus, it is possible, for example, to correct an error originally present in the central device. Moreover, a change in the services able to be received by the radio receiver can necessitate a change in the operating instructions. This can likewise be easily done in the central device.

One advantageous embodiment of the present invention provides that one portion of the operating instructions is able to be retrieved at any one time. This simplifies or eliminates the need for leafing through the possibly very voluminous operating instructions. This refinement can preferably provide for a portion of the operating instructions to be retrievable in response to application of the operating voltage. This section of the operating instructions can include, for example, introductory information, informing the user of the most important functions of the device for initial operation and, optionally, referring the user to additional information in the operating instructions. Moreover, this section of the operating instructions, in the same way as other sections, can be retrievable through an input selection.

One further refinement of the radio receiver in accordance with the present invention provides for a section of the operating instructions, which is adapted to the particular operating state of the receiver, to be retrieved and output by using a preassigned operational control element. This renders possible a context-dependent selection from the operating instructions, so that the user receives the relevant section of the operating instructions.

Provision is preferably made in this further refinement for other sections of the operating instructions to be output through repeated actuation of the preassigned operational control

element.

It can also be provided in the case of the radio receiver according to the present invention for a section of the operating instructions to be output by actuating the preassigned operational control element and by subsequently actuating a further operational control element, the section of the operating instructions relating to the further operational control element. In this manner, selecting from the operating instructions is also facilitated when the user would like to receive information independently of the prevailing operating state of the radio receiver. Thus, for example, in response to actuation of the preassigned operational control element, for example, optionally identified "HELP", a key having the "AUDIO" function can be actuated. The user then receives information pertaining to possible audio settings, such as, "use the AUDIO function to adjust the sound geometry. You can shift the audio reception to the front, back, to the left or right. You can adjust the balance with the left/right rocker switch, and the mixer control with the up/down rocker switch".

Exemplary embodiments of the present invention are depicted in the drawing on the basis of several figures and elucidated in the following description. The figures show:

Figure 1 an exemplary embodiment including operating instructions stored in the radio receiver; and

Figure 2 an exemplary embodiment, designed for retrieving the operating instructions from a central device.

Equivalent parts in the figures are provided with the same reference numerals.

Both exemplary embodiments illustrate an antenna 1, a receive section 2, a VF amplifier 3, and a loudspeaker 4. For the sake of clarity, details have been left out, such as of a plurality of loudspeakers for stereo reproduction, stereo decoders, RDS decoders, etc.. All receiver functions, such as transmitter selection and volume adjustment, are controlled by a controller 5 having a keypad 6 connected thereto. In addition, a display 7, provided for displaying current adjustments and other information, is also linked to controller 5. Moreover, in the exemplary embodiments, a voice output unit 8, whose output signals are made audible via VF

amplifier 3 and loudspeaker 4, is connected to controller 5. In the exemplary embodiment depicted in Figure 1, the operating instructions are stored in a non-volatile memory 9. Besides the operating instructions, this can also contain data required for operating the radio receiver.

- 5 A special key 10 for retrieving the operating instructions from memory 9 is provided on keypad 6 and is identified accordingly - for example with the word HELP.

10 In the exemplary embodiment according to Figure 2, the operating instructions are stored in a central device 11 (CE), which can be connected via a suitable transmitting medium to the receiver according to the present invention. For this, a transmitting/receiving device 12 (T/R) is provided with an antenna 13 in the exemplary embodiment illustrated in Figure 2. In response to actuation of the HELP key and, optionally, a plurality of keys of keypad 6, transmitting/receiving device 12 sends an appropriate query to central device 11. This query contains data pertaining to the inquiring receiver, suitable specifications (addresses) for transmitting the operating instructions to the receiver and, optionally, specifications with respect to which sections of the operating instructions are desired. The central device is made up essentially, for example, of a computer which contains and manages all necessary operating instructions. As a response, the operating instructions, or sections thereof, are transmitted in the exemplary embodiment according to Figure 2 via the same transmitting medium, for example a mobile radio network or the Internet, to the receiver, where they are fed via antenna 13 and transmitting/receiving device 12 to controller 5. A memory 14 is provided for temporarily storing the received operating instructions or sections thereof.

International Patent Application PCT/DE 98/03613

R. 33210

Robert Bosch GmbH, Stuttgart

9/16/99 Vg/Kat

New Claims

1. A radio receiver set, characterized in that operating instructions stored in a memory (9, 14) are able to be retrieved, through input selection, in any desired sections, and are able to be displayed optically and/or acoustically via an output device (7, 8).
2. The radio receiver set as recited in Claim 1, characterized in that a portion of the operating instructions is retrievable in response to application of the operating voltage.
3. The radio receiver set as recited in Claim 1 or 2, characterized in that a non-volatile memory (9) in the radio receiver stores the operating instructions.
4. The radio receiver set as recited in Claim 1 or 2, characterized in that the radio receiver has a transmission device (12), which is used for receiving the operating instructions or at least sections of the operating instructions from a central device (11).
5. The radio receiver set as recited in Claim 3 or 4, characterized in that the radio receiver has an operational control element (10), which is used to retrieve and output a section of the operating instructions, the section of the operating instructions being adapted to a specific operating state of the receiver.

5

In the case of a radio receiver set, stored operating instructions are able to be retrieved and read out via an output device. In this context, the operating instructions are retrievable from a non-volatile memory in the radio receiver. Means can also be provided, however, for retrieving the operating instructions from a central device, which is able to be connected via a transmission device to the radio receiver.

[illegible]

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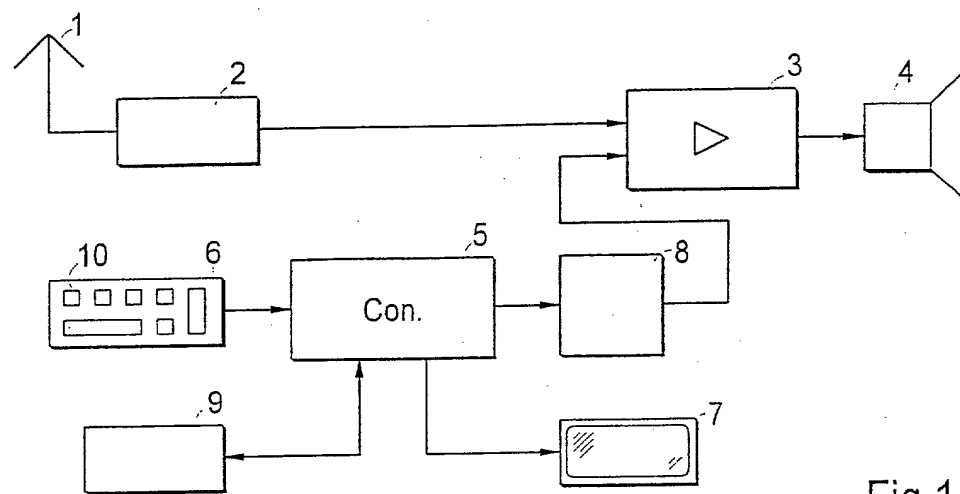


Fig.1

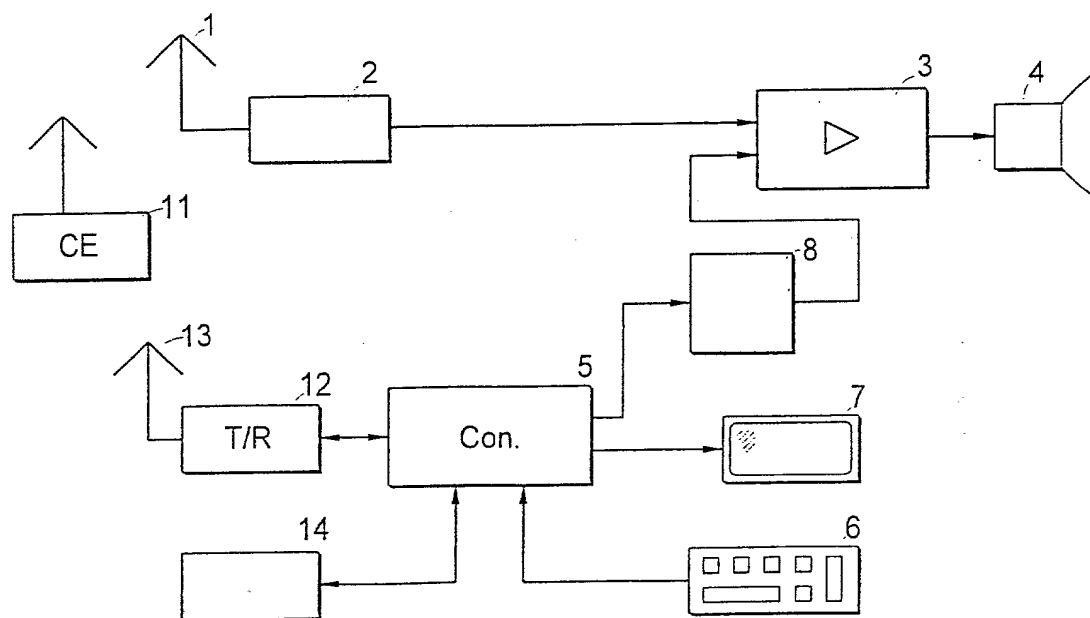


Fig.2

10191/1401

**COMBINED DECLARATION AND
POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **RADIO RECEIVER SET**, and the specification of which:

- ☐ is attached hereto;
- ☐ was filed as United States Application Serial No. _____ on _____, 19__ and was amended by the Preliminary Amendment filed on _____, 19__.
- ☒ was filed as PCT International Application Number PCT/DE98/03613, on the 9th day of December, 1998.
- ☒ an English translation of which is filed herewith.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international applications(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

EL594604939US

**PRIOR FOREIGN/PCT APPLICATION(S)
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119**

Country : Germany

Application No. : 197 54 406.1

Date of Filing: December 9, 1997

Priority Claimed

Under 35 U.S.C. § 119 : ☒ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code § 120 of any United States Application or PCT International Application designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATIONS OR
PCT INTERNATIONAL APPLICATIONS
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120**

U.S. APPLICATIONS

Number :

Filing Date :

**PCT APPLICATIONS
DESIGNATING THE U.S.**

PCT Number :

PCT Filing Date :

I hereby appoint the following attorney(s) and/or agents to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith.

(List name(s) and registration number(s)):

Richard L. Mayer, Reg. No. 22,490
Gerard A. Messina, Reg. No. 35,952
_____, Reg. No. _____
_____, Reg. No. _____

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Telephone No.: (212) 425-7200
Facsimile No.: (212) 425-5288

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1-00
Full name of inventor Arnd WENDLAND

Inventor's signature Arnd Wendland Date 21/06/00

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287289